RK R&D
MS
AWB
ZTR

USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Water Supply Outlook Report June 1, 2008

Picture: Black Bear SNOTEL Site - Winter of 1997

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C., 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

(406) 587-6811
10 E. Babcock
Federal Bldg Room 443
Bozeman MT 59715

Where to Get More Information

This contact list provides the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

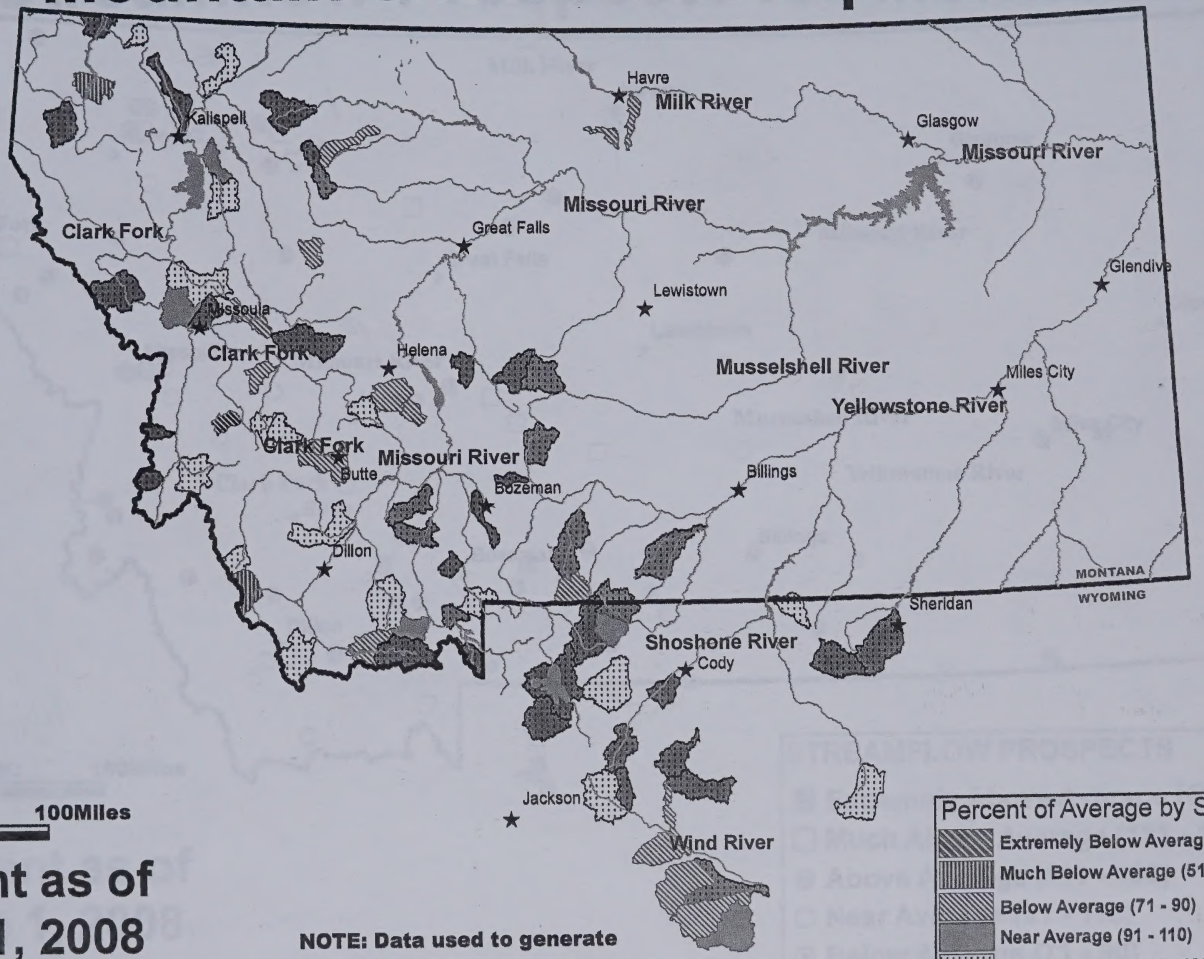
Beaverhead County Jim Olson 638-3800	**Dawson County** Linda Peterson-Lohse 377-5566	**Hill County** Deana Grabofsky 265-6792
Big Horn County Evan Van Order 665-3442	**Deer Lodge County** Glen Green 846-1703	**Jefferson County** Ronnie Maurer 278-3215
Blaine County Matthew Crampton 357-2320	**Fallon County** Ann Fisher 778-2238	**Judith Basin County** Rick Caquelin 566-2311
Broadwater County Karla Ware 266-3146	**Fergus County** Patty Creamer 538-7401	**Lake County** Carlos Rodriques 676-2841
Carbon County Gregory Evertz 962-3641	**Flathead County** Angel Rosario 752-4242	**Lewis and Clark County** Mindy Gauthier 449-5000
Carter County Wayne Yost 775-6355	**Gallatin County** Denise Wiedenheft 522-4018	**Liberty County** Dan Kultgen 759-5778
Cascade County Dale Krause 727-7580	**Garfield County** Sue Fitzgerald 557-2740	**Lincoln County** Kirk Sullivan 296-7152
Chouteau County Lanny Walker 622-5627	**Glacier County** Mark Johnson 873-4292	**Madison County** Ole Berkram 842-5741
Custer County Rusty Irion 232-7905	**Golden Valley County** Justin Meissner 323-2103	**McCone County** Regan Kirchner 485-2744
Daniels County Valerie Oksendahl 487-5366	**Granite County** Bret Bledsoe 859-3291	**Meagher County** Jeremy Frye 547-3633

Mineral County Kristine Berg 829-3395	**Prairie County** Dick Scheetz 635-5381	**Sweet Grass County** Chuck Roloff 932-5160
Missoula County Kristine Berg 829-3395	**Ravalli County** Henry Burkwhat 363-1444	**Teton County** Thedis Crowe 466-5722
Musselshell County Justin Meissner 323-2103	**Richland County** Jamie Selting 433-2103	**Toole County** Misty Vermulm 434-5234
Park County Ron Hoagland 222-2899	**Roosevelt County** Robert Bray 787-5232	**Treasure County** Danae Pinkerton 342-5510
Petroleum County Nikki Rife 429-6646	**Rosebud County** Rocky Schwagler 346-7333	**Valley County** Tracy Cumber 228-4321
Phillips County Lorna Philip 654-1334	**Sanders County** Don Feist 826-3701	**Wheatland County** John Oiestad 632-5534
Pondera County Stacy Eneboe 278-7611	**Sheridan County** Monica Friedrich 765-1801	**Wibaux County** Katrina Johnson 796-2211
Powder River County Carol Hilliard 436-2321	**Silver Bow County** Ronnie Maurer 287-3215	**Yellowstone County** Valerie Roberson 657-6135
Powell County Glen Green 846-1703	**Stillwater County** Ted Nelson 322-5359	

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



0 50 100Miles

Current as of June 1, 2008

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Percent of Average by Sub-Basin

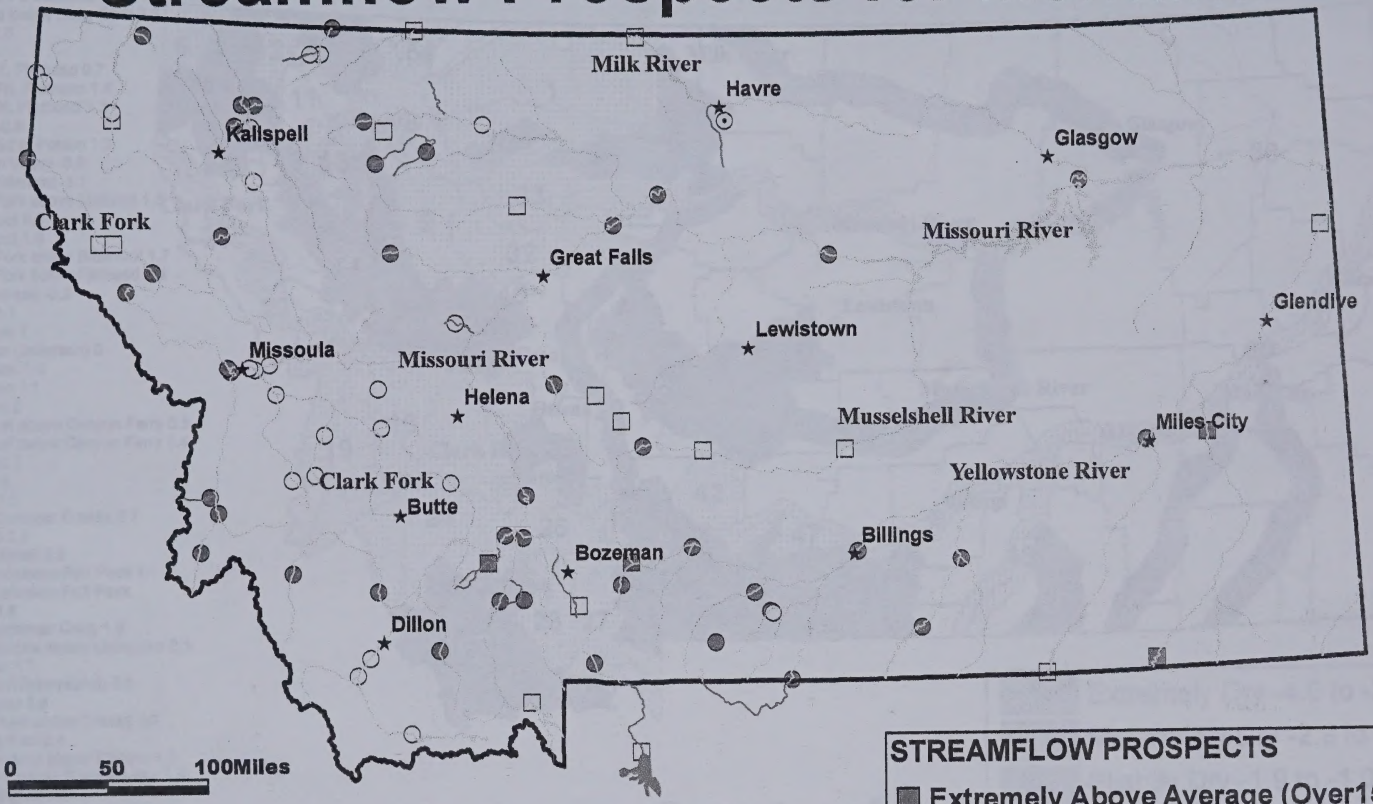
- Extremely Below Average (Below 51)
- Much Below Average (51 - 70)
- Below Average (71 - 90)
- Near Average (91 - 110)
- Above Average (111 - 130)
- Much Above Average (131 - 150)
- Extremely Above Average (Over150)

Mountain Snow Water Equivalent

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



Current as of June 1, 2008

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

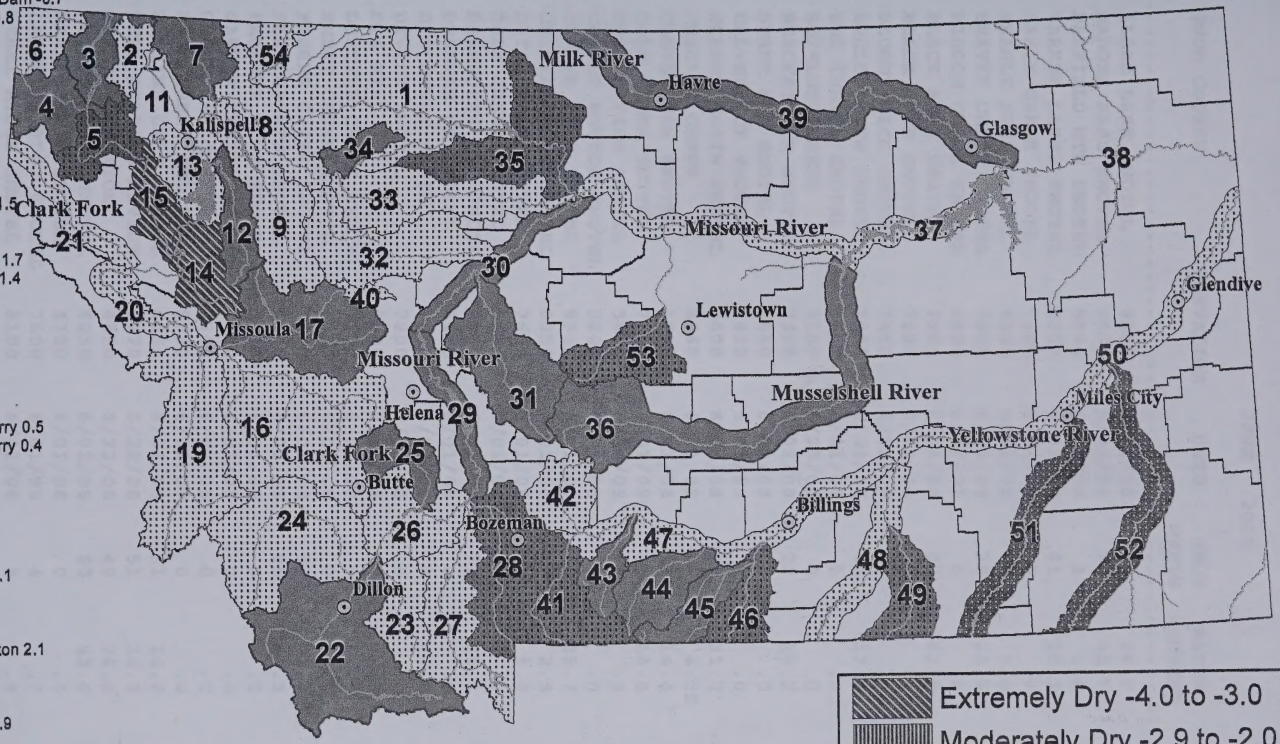
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE



RIVER INDEX & SWSI VALUES

1 Marias above Tiber Reservoir 1.6
2 Tobacco 1.3
3 Kootenai Ft. Steele to Libby Dam -0.7
4 Kootenai below Libby Dam 0.8
5 Fisher 2.5
6 Yaak 1
7 North FK. Flathead 0.7
8 Middle FK. Flathead 1.6
9 South FK. Flathead 1.3
12 Swan -0.6
13 Flathead at Polson 1.2
14 Mission Valley -3.6
15 Little Bitterroot -3.1
16 Clark Fork above Milltown 1.5
17 Blackfoot 0.5
19 Bitterroot 1.9
20 Clark Fork below Bitterroot 1.7
21 Clark Fork below Flathead 1.4
22 Beaverhead -0.3
23 Ruby 1.1
24 Big Hole 1
25 Boulder (Jefferson) 0
26 Jefferson 1.6
27 Madison 1.1
28 Gallatin 2
29 Missouri above Canyon Ferry 0.5
30 Missouri below Canyon Ferry 0.4
31 Smith 0.3
32 Sun 1.4
33 Teton 1.1
34 Birch/Dupuyer Creeks 0.7
35 Marias 2.3
36 Musselshell 0.2
37 Missouriabove Fort Peck 1.1
38 Missouribelow Fort Peck
39 Milk -0.6
40 Dearbornnear Craig 1.9
41 Yellowstone above Livingston 2.1
42 Shields 1.7
43 Boulder(Yellowstone) 0.6
44 Stillwater 0.6
45 Rock/Red Lodge Creeks 0.9
46 Clarks Fork 2.4
47 Yellowstone above Bighorn 1.8
48 Bighorn below Bighorn Lake 1.5
49 Little Bighorn 2.1
50 Yellowstone below Bighorn 1.7
51 Tongue 3.4
52 Powder 3.4
53 Upper Judith River 2.5
54 Saint Mary River 1.5

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

Current as of June 1, 2008

0 45 90 Miles

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

SNOTEL AND SNOW COURSE SUMMARY

JUNE 2008

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ALBRO LAKE SNOTEL	8300	6/01/08	48	19.7	1.5	13.4
BADGER PASS SNOTEL	6900	6/01/08	78	41.7	18.1	22.9
BANFIELD MTN SNOTEL	5600	6/01/08	3	1.8	.0	2.9
BARKER LAKES SNOTEL	8250	6/01/08	41	15.3	7.6	9.5
BASIN CREEK SNOTEL	7180	6/01/08	0	.0	.0	4.1
BEAGLE SPGS SNOTEL	8850	6/01/08	4	1.8	.0	1.4
BEAVER CREEK SNOTEL	7850	6/01/08	29	11.9	.0	8.6
BISSON CREEK SNOTEL	4920	6/01/08	0	.0	.0	.0
BLACK BEAR SNOTEL	7950	6/01/08	85	43.8	.0	26.1
BLACK PINE SNOTEL	7100	6/01/08	0	.0	.0	1.9
BLOODY DICK SNOTEL	7550	6/01/08	0	.0	.0	1.0
BOULDER MTN SNOTEL	7950	6/01/08	43	17.6	.0	9.2
BOX CANYON SNOTEL	6700	6/01/08	0	.0	.0	.0
BOXELDER CREEK	5100	5/28/08	0	.0	.0	.2
BRACKETT CR SNOTEL	7320	6/01/08	22	10.2	.0	5.1
BURNT MTN SNOTEL	5880	6/01/08	0	.0	.0	.0
CALVERT CR SNOTEL	6430	6/01/08	0	.0	.0	.0
CARROT BASIN SNOTEL	9000	6/01/08	73	31.2	2.7	24.2
CHICKEN CREEK	4060	6/01/08	---	4.2E	.0	.0
CLOVER MDW SNOTEL	8800	6/01/08	47	14.4	4.7	11.3
COLE CREEK SNOTEL	7850	6/01/08	34	14.8	.0	11.0
COMBINATION SNOTEL	5600	6/01/08	0	.0	.0	.0
COPPER BOTTOM SNOTEL	5200	6/01/08	0	.0	.0	.0
COPPER CAMP SNOTEL	6950	6/01/08	68	38.7	4.0	--
CRYSTAL LAKE SNOTEL	6050	6/01/08	5	2.5	1.2	.7
DAISY PEAK SNOTEL	7600	6/01/08	14	5.0	.0	3.4
DALY CREEK SNOTEL	5780	6/01/08	0	.0	.0	.0
DARKHORSE LK. SNOTEL	8700	6/01/08	73	35.3	16.6	26.3
DEADMAN CR SNOTEL	6450	6/01/08	0	.0	.0	.0
DISCOVERY BASIN	7050	5/28/08	8	2.4	2.0	2.4
DIVIDE SNOTEL	7800	6/01/08	0	.0	.0	2.7
DIX HILL	6400	6/01/08	0	.0	--	--
DUPUYER CREEK SNOTEL	5750	6/01/08	0	.0	.0	.4
EMERY CREEK SNOTEL	4350	6/01/08	0	.0	.0	.0
FISHER CREEK SNOTEL	9100	6/01/08	93	40.0	20.5	30.1
FLATTOP MTN SNOTEL	6300	6/01/08	95	43.2	31.0	36.5
FROHNER MDWS SNOTEL	6480	6/01/08	0	.0	.0	.7
GARVER CREEK SNOTEL	4250	6/01/08	0	.0	.0	.0
GRAVE CRK SNOTEL	4300	6/01/08	0	.0	.0	.0
HAND CREEK SNOTEL	5030	6/01/08	0	.0	.0	.0
HAWKINS LAKE SNOTEL	6450	6/01/08	31	14.0	.0	17.8
HELL ROARING DIVIDE	5770	5/28/08	51	26.3	10.4	10.8
HERRIG JUNCTION	4850	5/23/08	49	24.3	4.3	5.4
HOODOO BASIN SNOTEL	6050	6/01/08	90	43.6	17.5	28.4
KRAFT CREEK SNOTEL	4750	6/01/08	0	.0	.0	.0
LAKEVIEW RDG. SNOTEL	7400	6/01/08	4	.7	.0	.3
LEMHI RIDGE SNOTEL	8100	6/01/08	5	.9	.0	1.4
LICK CREEK SNOTEL	6860	6/01/08	9	4.2	.0	.5
LONE MOUNTAIN SNOTEL	8880	6/01/08	48	20.9	.0	11.8
LOWER TWIN SNOTEL	7900	6/01/08	51	19.3	4.6	13.0
LUBRECHT SNOTEL	4680	6/01/08	0	.0	.0	.0
MADISON PLT SNOTEL	7750	6/01/08	47	21.9	.0	9.0
MANY GLACIER SNOTEL	4900	6/01/08	0	.0	.0	.0
MONUMENT PK SNOTEL	8850	6/01/08	48	21.0	.0	15.9
MOSS PEAK SNOTEL	6780	6/01/08	71	36.2	27.6	31.0
MT LOCKHART SNOTEL	6400	6/01/08	29	14.4	.0	9.6
MULE CREEK SNOTEL	8300	6/01/08	35	12.1	.0	9.3
N.E. ENTRANCE SNOTEL	7350	6/01/08	0	.0	.0	.4
NEVADA RIDGE SNOTEL	7020	6/01/08	16	6.9	.0	3.4
NEZ PERCE CMP SNOTEL	5650	6/01/08	2	.9	.0	.3

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
N.F. ELK CR SNOTEL	6250	6/01/08	0	.0	.0	.6
NF JOCKO SNOTEL	6330	6/01/08	60	31.4	7.9	26.4
NOISY BASIN SNOTEL	6040	6/01/08	68	32.3	20.9	30.1
OPHIR PARK	7150	6/01/08	6	2.8	--	--
PETERSON MDW SNOTEL	7200	6/01/08	13	3.9	3.6	2.7
PICKFOOT CRK SNOTEL	6650	6/01/08	0	.0	.0	.0
PIKE CREEK SNOTEL	5930	6/01/08	50	19.2	.0	7.3
PLACER BASIN SNOTEL	8830	6/01/08	53	20.8	.0	14.6
POORMAN CR SNOTEL	5100	6/01/08	45	21.7	.0	11.1
PORCUPINE SNOTEL	6500	6/01/08	0	.0	.0	.0
RED MOUNTAIN	6000	5/28/08	16	7.8	.4	4.1
REVAIS CREEK	4800	5/28/08	0	.0	.0	.0
ROCKER PEAK SNOTEL	8000	6/01/08	37	13.5	5.5	11.7
ROCKY BOY SNOTEL	4700	6/01/08	0	.0	.0	.2
SACAJAWEA SNOTEL	6550	6/01/08	0	.0	.0	.0
SADDLE MTN SNOTEL	7900	6/01/08	50	20.2	5.3	16.3
S.F. SHIELDS SNOTEL	8100	6/01/08	41	17.3	3.2	12.3
SHORT CREEK SNOTEL	7000	6/01/08	0	.0	.0	.0
SHOWER FALLS SNOTEL	8100	6/01/08	77	34.5	15.2	20.5
SKALKAHO SNOTEL	7260	6/01/08	29	12.9	.0	14.6
SLEEPING WOMAN SNTL	6150	6/01/08	4	1.2	.0	1.2
SPUR PARK SNOTEL	8100	6/01/08	49	21.6	6.0	14.2
STAHL PEAK SNOTEL	6030	6/01/08	71	34.7	31.5	28.0
STRYKER BASIN	6180	5/23/08	74	37.9	15.8	19.4
STUART MOUNTAIN SNTL	7400	6/01/08	52	25.7	13.3	17.0
TAYLOR ROAD	4080	5/28/08	0	.0	.0	.2
TEPEE CREEK SNOTEL	8000	6/01/08	12	5.1	.0	5.2
TIZER BASIN SNOTEL	6840	6/01/08	0	.0	.0	.3
TV MOUNTAIN	6800	5/31/08	16	7.1	2.0	6.8
TWELVEMILE SNOTEL	5600	6/01/08	0	.0	.0	.4
TWIN LAKES SNOTEL	6400	6/01/08	68	36.9	1.8	22.3
WALDRON SNOTEL	5600	6/01/08	0	.0	.0	.1
WARM SPRINGS SNOTEL	7800	6/01/08	46	18.9	15.5	17.0
WEST YELL'ST SNOTEL	6700	6/01/08	0	.0	.0	.0
WHISKEY CREEK SNOTEL	6800	6/01/08	22	8.8	.0	1.2
WHITE MILL SNOTEL	8700	6/01/08	62	26.6	9.2	18.0
WOOD CREEK SNOTEL	5960	6/01/08	0	.0	.0	.5

Montana Water Supply Outlook Report as of June 1, 2008

June 1 snowpack is well above average and well above last year on this date. The Columbia River Basin was 145 percent of average; Missouri River Basin was 155 percent of average, St. Mary River Basin was 118 percent of average, and the Yellowstone River Basin was 155 percent of average.

May mountain precipitation in the Columbia River Basin was 100 percent of average, Missouri River Basin was 143 percent of average, St. Mary was 133 percent of average, and Yellowstone River Basin was 162 percent of average.

There is still enough snowpack remaining for most rivers to peak again from snowmelt. How high the June snowmelt peaks reach will be dependant upon temperatures and rainfall.

Snowpack

As of June 1, mountain snowpack was 148 percent of average and 374 percent of last year at this same time. Seasonally cool temperatures in most of May have slowed the snowmelt. Snow water content west of the Continental Divide was 145 percent of average and 271 percent of last year and east of the Continental Divide was 152 percent of average and 478 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	MAY % CHANGE
COLUMBIA	145	271	+13
KOOTENAI, MONTANA	127	264	-7
KOOTENAI, CANADA	120	115	+15
FLATHEAD, MONTANA	150	200	+16
UPPER CLARK FORK	118	289	+6
BITTERROOT	147	---	+5
LOWER CLARK FORK	177	418	+32
MISSOURI	155	559	+39
MISSOURI HEADWATERS	147	579	+32
JEFFERSON	123	362	+14
MADISON	159	---	+38
GALLATIN	160	631	+42
MISSOURI MAINSTEM	162	426	+46
HEADWATERS MAINSTEM	150	691	+41
SMITH-JUDITH-MUSSELSHELL	178	736	+67
SUN-TETON-MARIAS	185	416	+65
ST. MARY	118	139	+2
YELLOWSTONE	155	486	+48
UPPER YELLOWSTONE	146	512	+34
LOWER YELLOWSTONE	158	524	+56
STATE-WIDE	148	374	+25

Precipitation

May mountain and valley precipitation across the state was 139 percent of average and 121 percent of last year, while the water year precipitation was 106 percent of average and 103 percent of last year.

West of the Continental Divide, May mountain and valley precipitation was 96 percent of average and 91 percent of last year and the water year precipitation was 102 percent of average and 99 percent of last year. East of the Divide, May mountain and valley precipitation was 161 percent of average and 134 percent of last year and the water year precipitation was 109 percent of average and 106 percent of last year.

RIVER BASIN	MAY % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	96	102
KOOTENAI	77	102
FLATHEAD	107	100
UPPER CLARK FORK	106	98
BITTERROOT	75	106
LOWER CLARK FORK	76	108
MISSOURI	154	110
JEFFERSON	112	106
MADISON	125	114
GALLATIN	122	110
MISSOURI MAINSTEM	146	101
SMITH-JUDITH-MUSSELSHELL	172	109
SUN-TETON-MARIAS	238	124
MILK	169	100
ST. MARY	141	101
YELLOWSTONE	169	112
UPPER YELLOWSTONE	153	111
LOWER YELLOWSTONE	191	116
STATE-WIDE	139	106

Reservoirs

Major reservoir storages state-wide were 82 percent of average and 99 percent of last year. Reservoir storage west of the Continental Divide was 117 percent of average and 100 percent of last year. East of the Continental Divide, reservoir storages were 68 percent of average and 99 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	117	100
KOOTENAI	134	112
FLATHEAD	106	90
UPPER CLARK FORK	121	107
BITTERROOT	107	93
LOWER CLARK FORK	106	101
MISSOURI	66	99
JEFFERSON	84	100
MADISON	104	98
GALLATIN	118	88
MISSOURI MAINSTEM	63	98
SMITH-JUDITH-MUSSELSHELL	52	73
SUN-TETON-MARIAS	105	111
MILK	74	59
ST. MARY	86	88
YELLOWSTONE	109	100
UPPER YELLOWSTONE	106	91
LOWER YELLOWSTONE	109	100
STATE-WIDE	82	99

Streamflow

SEASONAL STREAMFLOW FORECASTS

State-wide, streamflow forecasts average between 105 and 122 percent. West of the Continental Divide, streamflow forecasts average between 102 and 113 percent and east of the Continental Divide, streamflow forecasts average between 107 and 127 percent.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	June-July THIS YEAR % OF AVERAGE	June-July LAST YEAR % OF AVERAGE
COLUMBIA	102 to 113	57 to 68
KOOTENAI	103 to 113	74 to 86
FLATHEAD	106 to 118	67 to 75
UPPER CLARK FORK	84 to 100	54 to 68
BITTERROOT	112 to 124	37 to 47
LOWER CLARK FORK	119 to 123	48 to 57
MISSOURI	102 to 123	30 to 47
JEFFERSON	89 to 115	16 to 35
MADISON	118 to 126	45 to 53
GALLATIN	120 to 131	42 to 53
MISSOURI MAINSTEM	106 to 118	28 to 39
SMITH-JUDITH-MUSSELSHELL	107 to 133	25 to 44
SUN-TETON-MARIAS	105 to 124	41 to 57
MILK	84 TO 125	46 to 66
ST. MARY	94 to 111	69 to 86
YELLOWSTONE	120 to 137	40 to 54
UPPER YELLOWSTONE	112 to 126	38 to 53
LOWER YELLOWSTONE	132 to 153	44 to 57
STATE-WIDE	105 to 122	43 to 57

NOTE: The JUNE-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on June 1, NOT of what actually occurred.

Snow Melt Peak Streamflow Forecasts

Snowmelt peak dates from data as of May 30 are as follows:

COLUMBIA RIVER	
Bitterroot River near Darby	June 7 to June 14
Blackfoot River near Bonner	May 21 to May 30
Clark Fork River above Missoula	June 7 to June 14
Clark Fork River at St. Regis	June 7 to June 14
Clark Fork River below Missoula	June 7 to June 14
Fisher River near Libby	May 21 to May 28
Lower Willow Creek Reservoir Inflow	May 20 to May 25
Little Blackfoot River near Garrison	May 20 to May 28
Middle Fork Flathead River near West Glacier	June 7 to June 14
Middle Fork Rock Creek near Phillipsburg	June 7 to June 14
Nevada Creek near Helmville	May 19 to May 28
North Fork Flathead River near Columbia Falls	June 7 to June 14
Prospect Creek at Thompson Falls	May 18 to May 30
South Fork Flathead River near Hungry Horse	June 7 to June 14
Swan River near Big Fork	June 7 to June 14
Thompson River near Eureka	May 20 to May 28
Tobacco River near Eureka	May 29 to June 5
Yaak River near Troy	May 20 to May 28
MISSOURI RIVER	
Badger Creek near Browning	June 7 to June 13
Big Hole River at Wisdom	June 6 to June 12

Big Hole River near Melrose	June 6 to June 12
Boulder River near Boulder	May 22 to May 30
Clark Canyon Reservoir Inflow	June 6 to June 12
Cut Bank Creek near Browning	June 6 to June 12
Dearborn River near Craig	May 29 to June 3
Gallatin River near Gateway	June 11 to June 16
Gallatin River near Logan	June 11 to June 16
Gibson Reservoir Inflow	June 5 to June 12
Hebgen Reservoir Inflow	June 6 to June 11
Jefferson River near Three Forks	June 6 to June 11
Middle Creek Reservoir Inflow	June 11 to June 16
Madison River near West Yellowstone	June 6 to June 11
Marias River near Shelby	June 5 to June 12
Missouri River at Toston	June 8 to June 15
Musselshell River near Harlowton	June 8 to June 15
North Fork Musselshell River near Delpine	June 8 to June 15
Ruby Reservoir Inflow	June 6 to June 11
Sheep Creek near White Sulphur Springs	June 6 to June 11
Smith River below Eagle Creek near Fort Logan	June 6 to June 11
South Fork Musselshell River above Martinsdale	June 6 to June 11
Swift Reservoir Inflow	June 6 to June 12
Two Medicine River near Browning	June 6 to June 12
Willow Creek near Harrison	June 6 to June 12

SASKATCHEWAN RIVER BASIN

Lake Sherburne Inflow	June 6 to June 12
St. Mary River at International Boundary	June 6 to June 12

YELLOWSTONE RIVER

Big Goose Creek near Sheridan Wyoming	June 8 to June 18
Boulder River near Big Timber	June 12 to June 21
Clarks Fork River near Belfry	June 12 to June 21
Cooney Reservoir Inflow	May 29 to June 13
Little Bighorn near Hardin	June 12 to June 21
Mystic Reservoir Inflow	June 12 to June 21
Powder River near Moorehead	June 7 to June 14
Shields River near Livingston	June 7 to June 14
Stillwater River near Absarokee	June 12 to June 21
Tongue River Reservoir Inflow	June 8 to June 18
Yellowstone River at Billings	June 13 to June 22
Yellowstone River at Corwin Springs	June 12 to June 21
Yellowstone River at Lake Outlet	June 28 to July 8
Yellowstone River at Livingston	June 12 to June 21

Surface Water Supply Index

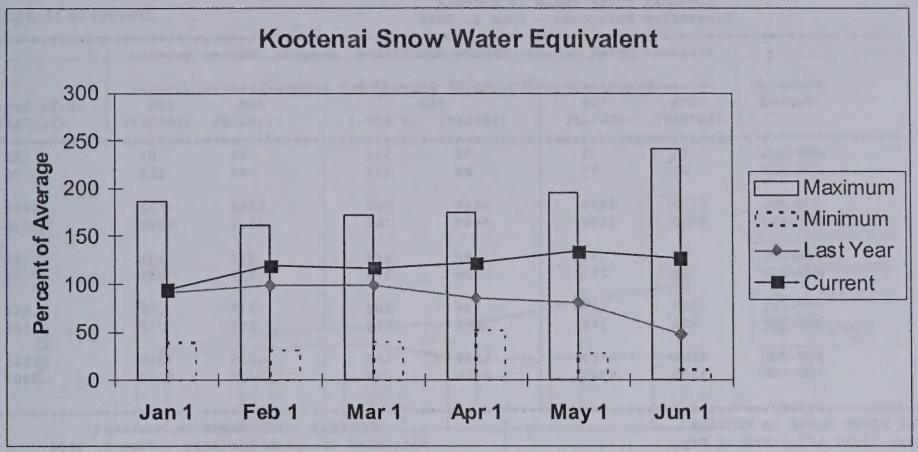
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
-1.3	-2.0	Tobacco River
-0.7	+1.9	Kootenai Ft. Steele to Libby Dam
+0.8	+2.6	Kootenai River below Libby Dam
+2.5	-2.6	Fisher River
+1.0	-0.8	Yaak River
+0.7	+0.5	North Fork Flathead River
+1.6	-1.4	Middle FORK Flathead River
+1.3	+0.3	South Fork Flathead River
+1.3	-0.4	Flathead River at Columbia Falls
-0.6	-2.0	Swan River
+1.2	-1.7	Flathead River at Polson
-3.6	-3.0	Mission Valley
-3.1	-2.3	Little Bitterroot River
+1.5	-1.5	Clark Fork River above Milltown
+0.5	-2.2	Blackfoot River
+1.9	-2.6	Bitterroot River
+1.7	-2.4	Clark Fork River below Bitterroot River
+1.4	-1.8	Clark Fork River below Flathead River
-0.3	-2.3	Beaverhead River
+1.1	-3.5	Ruby River
+1.0	-1.8	Big Hole River
0.0	-3.3	Boulder River (Jefferson)
+1.6	-2.0	Jefferson River
+1.1	-2.6	Madison River
+2.0	-3.1	Gallatin River
+0.5	-2.8	Missouri River above Canyon Ferry
+0.4	-2.3	Missouri River below Canyon Ferry
+0.3	-2.3	Smith River
+1.4	-2.0	Sun River
+1.1	-3.4	Teton River
+0.7	-3.7	Birch/Dupuyer Creeks
+2.5	+1.5	Upper Judith River
+1.6	-2.0	Marias River above Tiber
+2.3	-2.7	Marias River below Tiber
+0.2	-2.6	Musselshell River
+1.1	-1.3	Missouri River above Ft. Peck
-3.3	-4.0	Missouri River below Ft. Peck
+1.5	-0.8	St. Mary River
-0.6	----	Milk River
+1.9	-3.6	Dearborn River near Craig
+2.1	-3.2	Yellowstone River above Livingston
+1.7	-3.0	Shields River
+0.6	-3.3	Boulder River (Yellowstone)
+0.6	-3.4	Stillwater River
+0.9	-3.6	Rock/Red Lodge Creeks
+2.4	-3.0	Clarks Fork River
+1.8	-3.2	Yellowstone River above Bighorn River
+1.5	-2.7	Bighorn River below Bighorn Lake
+2.1	+0.9	Little Bighorn River
+1.7	-3.2	Yellowstone River below Bighorn River
+3.4	+2.7	Tongue River
+3.4	-1.1	Powder River

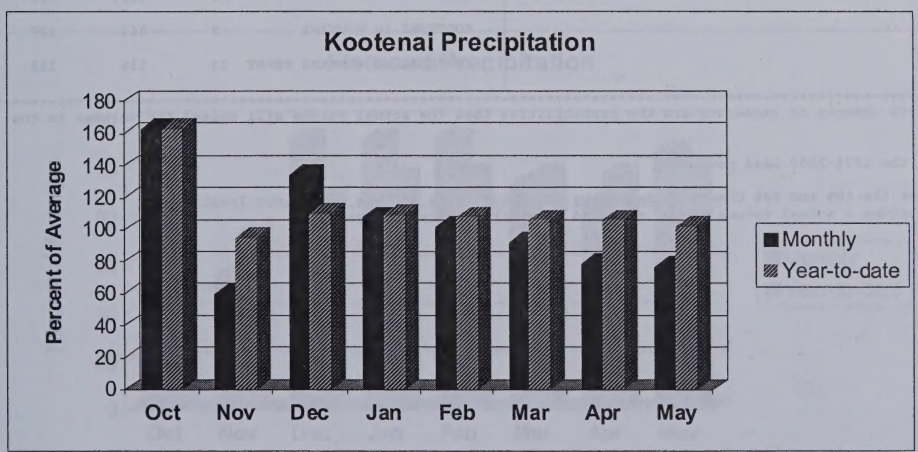
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were above average and tied for sixth highest of record with 1975. Snow water content was 127 percent of average and 264 percent of last year. Poorman SNOTEL site was fifth highest of record.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001 and 2005; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during May was 80 percent of average and 80 percent of last year. Valley precipitation during May was 65 percent of average and 65 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 102 percent of average and 93 percent of last year.



Lake Koocanusa storage was 134 percent of average and 112 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.3 in the Tobacco River; -0.7 in the Kootenai Ft. Steele to Libby Dam; +0.8 in the Kootenai River below Libby Dam; +2.5 in the Fisher River; and +1.0 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	JUN-JUL	51	63	72	116	81	93	62
	JUN-SEP	62	77	88	116	99	114	76
LIBBY RES Inflow (1,2)	JUN-JUL	2750	3220	3440	100	3660	4130	3440
	JUN-SEP	3500	4150	4440	100	4730	5380	4440
FISHER RIVER nr Libby	JUN-JUL	77	90	99	146	108	121	68
	JUN-SEP	99	113	123	146	133	147	84
YAAK RIVER nr Troy	JUN-JUL	102	127	144	100	161	186	144
	JUN-SEP	121	148	166	100	184	210	166
KOOTENAI at Leonia (1,2)	JUN-JUL	3250	3790	4040	103	4290	4830	3920
	JUN-SEP	4140	4850	5170	103	5490	6200	5000

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	4272.0	3801.0	3193.1

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	10	97	119
KOOTENAI MAINTSTEM	4	462	144
TOBACCO	2	110	124
FISHER	1	0	0
YAAK	3	5450	100
KOOTENAI in MONTANA	9	264	127
KOOTENAI ab BONNERS FERRY	19	132	122

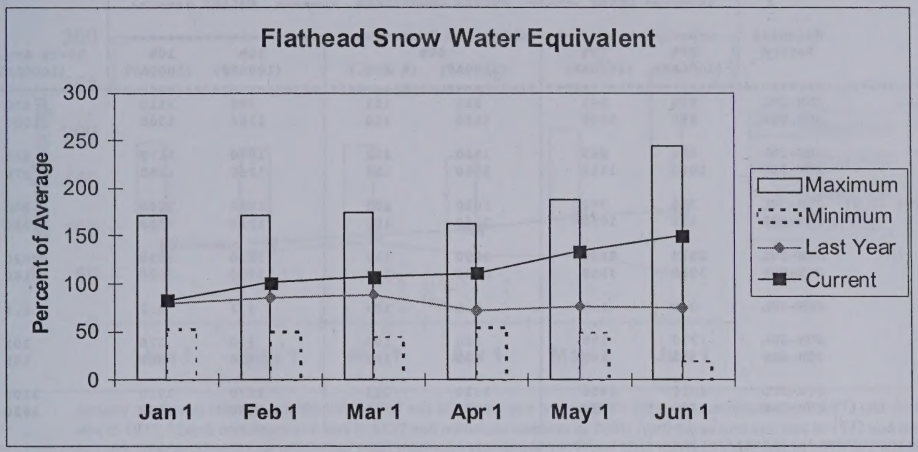
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

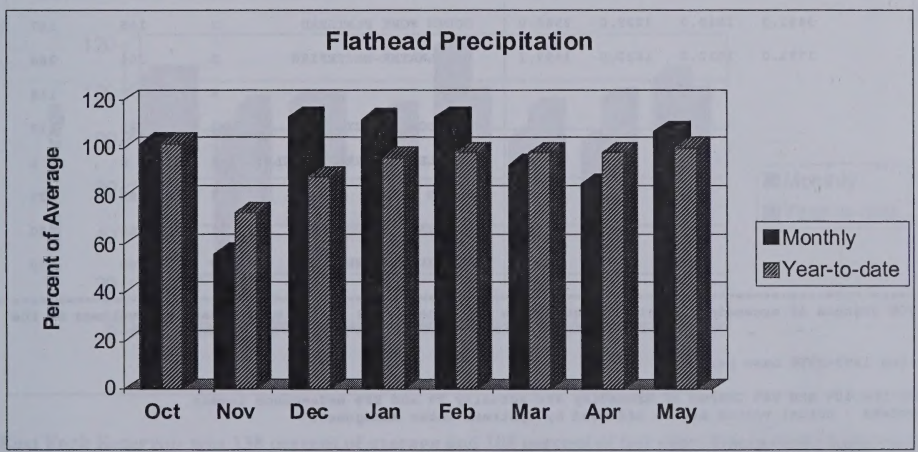
Flathead River Basin

Snowpack conditions in the Flathead River Basin were well above average and eighth highest of record. Snow water content was 150 percent of average and 200 percent of last year. Hell Roaring Divide snow course was fourth highest of record, Herrig Junction snow course set a new record high passing 1997, Badger Pass SNOTEL site was fifth highest of record, Pike Creek SNOTEL site was fourth highest of record, and Stryker Basin snow course was second highest of record.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during May was 114 percent of average and 118 percent of last year. Valley precipitation during May was 92 percent of average and 70 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 100 percent of average and 98 percent of last year.



Combined Camas reservoir storage was 64 percent of average and 88 percent of last year; Lower Jocko Lake was 126 percent of average 122 percent of last year; combined Mission Valley reservoir storage was 45 percent of average and 57 percent of last year; Hungry Horse storage was 111 percent of average and 89 percent of last year; and Flathead Lake storage was 101 percent of average and 93 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +0.7 in the North Fork Flathead River; +1.6 in the Middle Fork Flathead River; +1.3 in the South Fork Flathead River; +1.3 in the Flathead River at Columbia Falls; -0.6 in the Swan River; +1.2 in the Flathead River at Polson; -3.6 for the Mission Valley and -3.1 for the Little Bitterroot River basins.

FLATHEAD RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	JUN-JUL	735	845	920	111	995	1110	830
	JUN-SEP	895	1020	1100	110	1180	1300	1000
MF FLATHEAD nr West Glacier	JUN-JUL	850	945	1010	122	1070	1170	825
	JUN-SEP	1010	1110	1180	121	1250	1350	975
HUNGRY HORSE Reservoir Inflow (1,2)	JUN-JUL	780	940	1010	105	1080	1240	960
	JUN-SEP	925	1070	1140	105	1210	1350	1090
FLATHEAD at Columbia Falls (2)	JUN-JUL	2530	2830	3030	113	3230	3530	2690
	JUN-SEP	3080	3350	3530	112	3710	3980	3160
ASHLEY CREEK nr Marion (2)	JUN-JUL	0.8	1.8	2.5	155	3.2	4.2	1.6
SWAN RIVER nr Bigfork	JUN-JUL	270	300	320	105	340	370	305
	JUN-SEP	345	380	405	105	430	465	385
FLATHEAD LAKE Inflow (1,2)	JUN-JUL	3310	3450	3510	113	3570	3710	3100
	JUN-SEP	3800	3990	4070	112	4150	4340	3620

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	20.0	22.6	31.2
LOWER JOCKO LAKE	6.4	4.4	3.6	3.5
MISSION VALLEY (8)	100.0	30.9	54.3	68.7
HUNGRY HORSE	3451.0	2860.0	3229.0	2588.0
FLATHEAD LAKE	1791.0	1510.0	1620.0	1499.2

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	2	201	142
NF FLATHEAD in MONTANA	6	166	159
MIDDLE FORK FLATHEAD	4	212	156
SOUTH FORK FLATHEAD	2	155	107
STILLWATER-WHITEFISH	5	304	260
SWAN	4	177	114
MISSION VALLEY	2	131	117
LITTLE BITTERROOT-ASHLEY	0	0	0
JOCKO	5	282	127
FLATHEAD in MONTANA	21	200	150
FLATHEAD RIVER BASIN	23	200	150

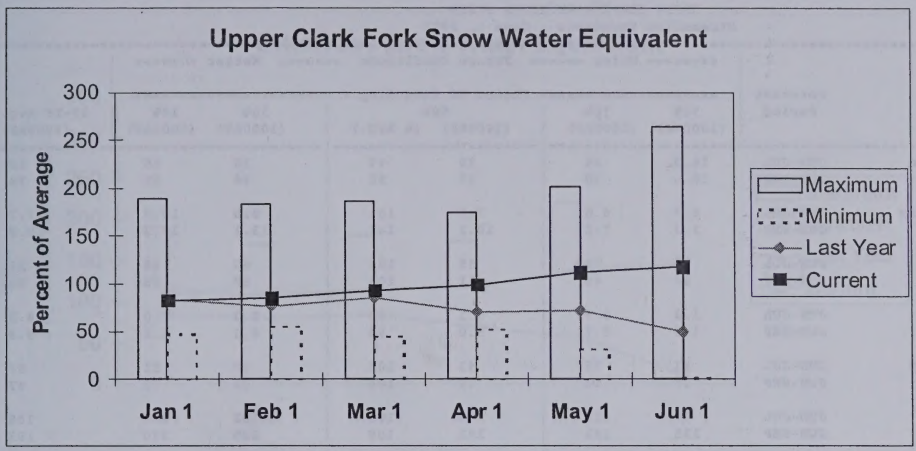
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

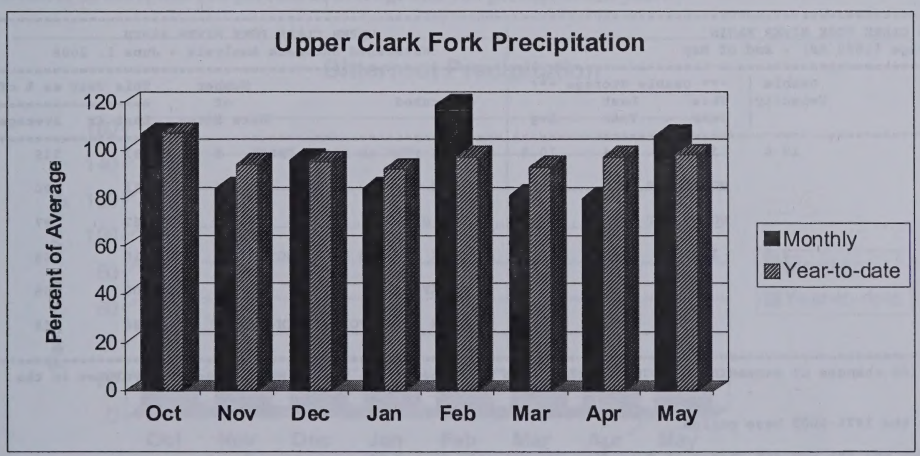
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were above average. Snow water content was 118 percent of average and 289 percent of last year. Barker Lakes SNOTEL site was fifth highest of record and Nevada Creek SNOTEL was second highest of record.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during May was 108 percent of average and 93 percent of last year. Valley precipitation during May was 95 percent of average and 64 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 98 percent of average and 95 percent of last year.



East Fork Reservoir was 138 percent of average and 108 percent of last year; Georgetown Lake was not available; Lower Willow Creek storage was not available; and Nevada Creek storage was 105 percent of average and 106 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.5 in the Clark Fork River above Milltown and +0.5 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LITTLE BLACKFOOT nr Garrison	JUN-JUL	14.5	24	30	94	36	45	32
	JUN-SEP	18.6	30	37	95	44	55	39
FLINT CREEK nr Southern Cross	JUN-JUL	4.7	6.6	7.8	101	9.0	10.9	7.7
	JUN-SEP	3.3	7.5	10.3	101	13.1	17.3	10.2
FLINT CREEK blw Boulder Ck	JUN-JUL	22	30	35	106	40	48	33
	JUN-SEP	34	44	51	106	58	68	48
LOWER WILLOW CK RES Inflow	JUN-JUL	1.2	2.9	4.1	95	5.3	7.0	4.3
	JUN-SEP	1.8	3.7	5.0	94	6.3	8.2	5.3
MF ROCK CREEK nr Philipsburg	JUN-JUL	31	37	41	105	45	51	39
	JUN-SEP	36	44	49	104	54	62	47
ROCK CREEK nr Clinton	JUN-JUL	87	128	155	105	182	225	148
	JUN-SEP	115	161	192	105	225	270	183
CLARK FORK abv Milltown	JUN-JUL	220	285	325	103	365	430	315
	JUN-SEP	305	375	425	104	475	545	410
NEVADA CREEK nr Helmville	JUN-JUL	3.2	5.2	6.6	94	8.0	10.0	7.0
	JUN-SEP	4.1	6.4	8.0	94	9.6	11.9	8.5
BLACKFOOT RIVER nr Bonner	JUN-JUL	250	320	365	96	410	480	380
	JUN-SEP	325	395	445	95	495	565	470
CLARK FORK abv Missoula	JUN-JUL	590	650	690	99	730	790	695
	JUN-SEP	775	835	875	99	915	975	880

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	14.5	13.4	10.5
GEORGETOWN LAKE		NO REPORT		
LOWER WILLOW CREEK		NO REPORT		
NEVADA CREEK	12.6	11.6	10.9	11.1

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	5	191	119
FLINT CREEK	4	113	90
ROCK CREEK	2	467	97
CLARK FORK ab BLACKFOOT	9	210	108
BLACKFOOT	6	408	135
UPPER CLARK FORK BASIN	15	286	118

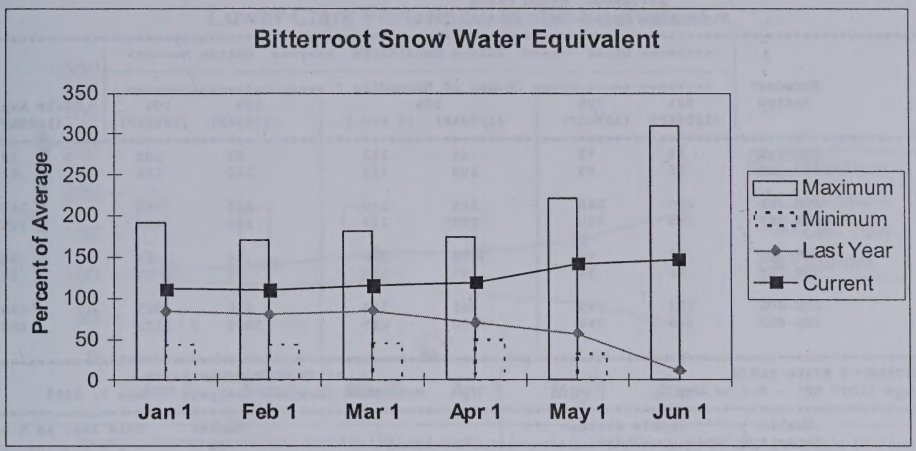
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

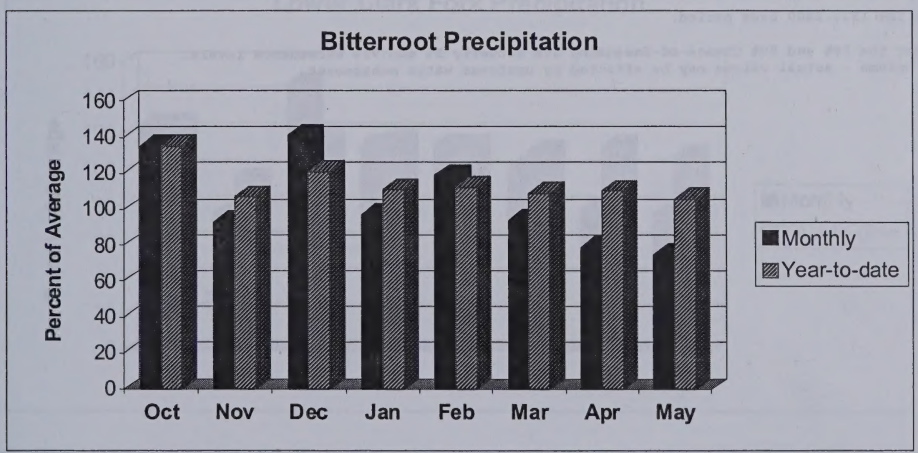
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were well above average. Snow water content was 147 percent of average and 1221 percent of last year. Nez Perce Camp SNOTEL site was second highest of record and Lolo Pass SNOTEL site was third highest of record.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977 and 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987,1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during May was 79 percent of average and 78 percent of last year. Valley precipitation during May was 60 percent of average and 44 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 106 percent of average and 108 percent of last year.



Painted Rocks Lake storage was 110 percent of average and 104 percent of last year and Como storage was 104 percent of average and 83 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.9 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	JUN-JUL	63	75	84	122	93	105	69
	JUN-SEP	76	90	100	122	110	124	82
BITTERROOT nr Darby	JUN-JUL	225	260	285	119	310	345	240
	JUN-SEP	275	320	350	119	380	425	295
COMO RESERVOIR Inflow	JUN-JUL	38	46	52	130	58	66	40
	JUN-SEP	42	51	57	130	63	72	44
BITTERROOT at Missoula	JUN-JUL	735	810	860	125	910	985	690
	JUN-SEP	880	950	1000	125	1050	1120	800

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	33.7	32.4	30.5
COMO	34.9	32.2	38.6	30.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	2	398	127
EAST SIDE BITTERROOT	3	625	107
WEST SIDE BITTERROOT	3	2928	191
BITTERROOT RIVER BASIN	7	1221	147

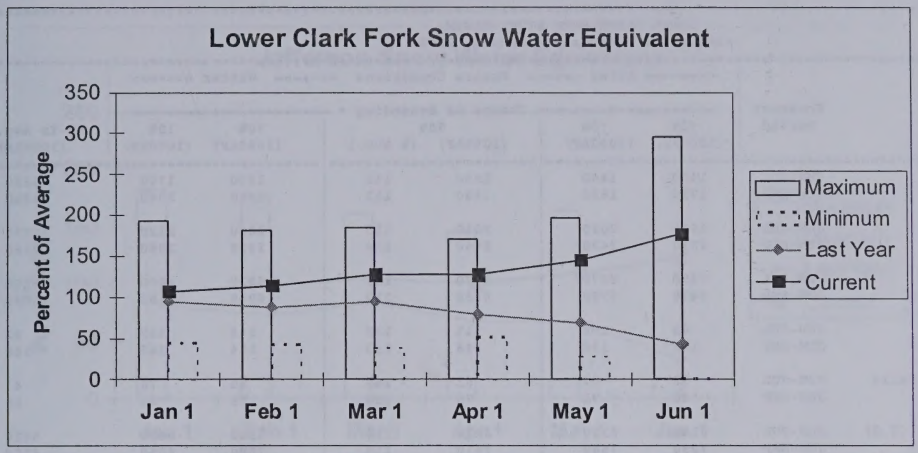
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

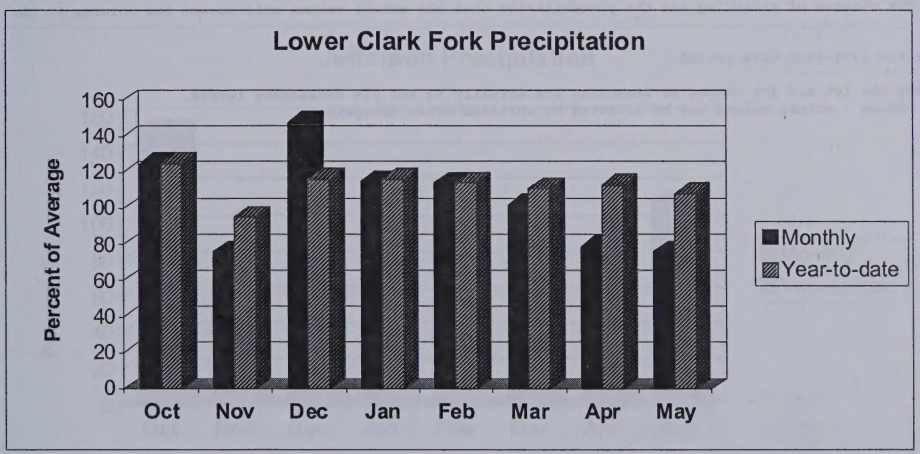
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were well above average. Snow water content was 177 percent of average and 418 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during May was 78 percent of average and 131 percent of last year. Valley precipitation during May was 69 percent of average and 93 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 108 percent of average and 111 percent of last year.



Noxon Rapids storage was 106 percent of average and 101 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.7 in the Clark Fork River below Bitterroot River and +1.4 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<======= Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	JUN-JUL	1400	1490	1550	112	1610	1700	1380
	JUN-SEP	1720	1820	1880	112	1940	2040	1680
CLARK FORK at St. Regis (1)	JUN-JUL	1960	2020	2040	115	2060	2120	1770
	JUN-SEP	2370	2430	2460	114	2490	2550	2160
CLARK FORK nr Plains (1,2)	JUN-JUL	5450	5670	5770	113	5870	6090	5100
	JUN-SEP	6470	6720	6830	112	6940	7190	6090
THOMPSON nr Thompson Falls	JUN-JUL	93	104	111	135	118	129	82
	JUN-SEP	126	138	146	135	154	166	108
PROSPECT CREEK at Thompson Falls	JUN-JUL	52	57	61	149	65	70	41
	JUN-SEP	66	71	75	150	79	84	50
CLARK FK at Whitehorse Rpds (1,2)	JUN-JUL	6130	6320	6410	114	6500	6690	5620
	JUN-SEP	7250	7540	7670	114	7800	8090	6750

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	332.8	330.1	313.6

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
LOWER CLARK FORK BASIN	8	418	177

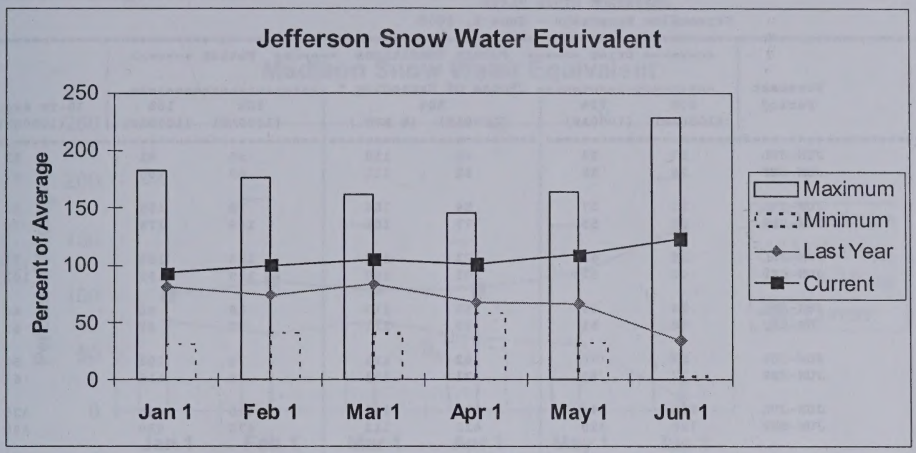
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

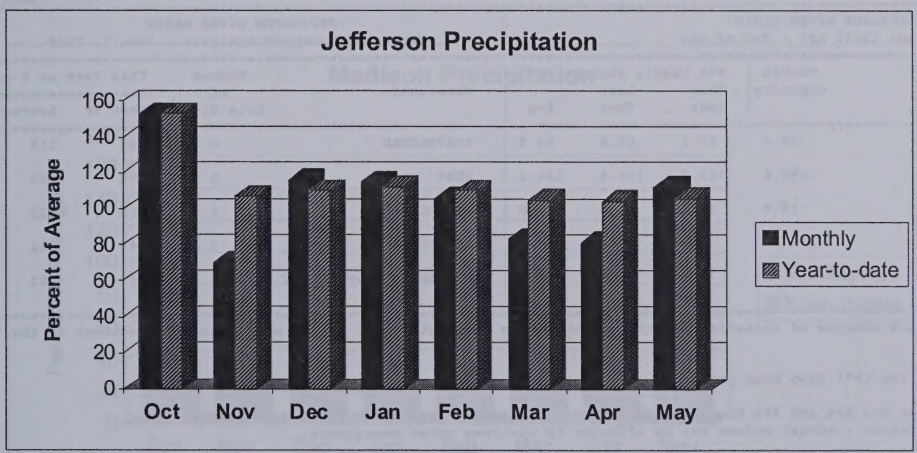
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were above average. Snow water content was 123 percent of average and 362 percent of last year. Lakeview SNOTEL sites was tied for second highest of record with 1980 and Albro Lake SNOTEL site set a new record high.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during May was 111 percent of average and 139 percent of last year. Valley precipitation during May was 114 percent of average and 148 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 106 percent of average and 115 percent of last year.



Lima storage was 99 percent of average and 94 percent of last year; Clark Canyon storage was 75 percent of average and 103 percent of last year; and Ruby River storage was 101 percent of average and 105 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was -0.3 in the Beaverhead River; +1.1 in the Ruby River; +1.0 in the Big Hole River; 0.0 in the Boulder River; and +1.6 for the Jefferson River at Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	JUN-JUL	23	33	43	110	55	81	39
	JUN-SEP	26	39	52	111	69	105	47
CLARK CANYON Inflow (2)	JUN-JUL	22	37	54	106	78	135	51
	JUN-SEP	33	55	77	101	108	178	76
BEAVERHEAD RIVER at Barretts (2)	JUN-JUL	29	41	73	103	105	152	71
	JUN-SEP	41	67	103	100	139	192	103
RUBY RESERVOIR Inflow	JUN-JUL	36	46	52	113	58	68	46
	JUN-SEP	50	61	69	111	77	88	62
BIG HOLE RIVER at Wisdom	JUN-JUL	22	46	62	115	78	102	54
	JUN-SEP	27	53	71	113	89	115	63
BIG HOLE RIVER nr Melrose	JUN-JUL	285	340	375	115	410	465	325
	JUN-SEP	320	380	425	112	470	530	380
JEFFERSON nr Twin Bridges (2)	JUN-JUL	300	390	455	117	520	610	390
	JUN-SEP	335	450	525	113	600	715	465
BOULDER RIVER nr Boulder	JUN-JUL	8.0	23	33	92	43	58	36
	JUN-SEP	10.1	27	39	91	51	68	43
WILLOW CREEK Reservoir Inflow	JUN-JUL	7.4	12.8	16.4	152	20	25	10.8
	JUN-SEP	7.7	14.4	18.9	144	23	30	13.1
JEFFERSON RIVER nr Three Forks (2)	JUN-JUL	335	410	465	126	520	595	370
	JUN-SEP	375	485	560	124	635	745	450

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	65.1	69.6	65.8
CLARK CANYON	255.6	120.2	116.4	161.2
RUBY RIVER	38.8	38.4	36.7	37.9

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	8	383	118
RUBY	5	494	132
BIGHOLE	8	281	123
BOULDER	3	245	82
JEFFERSON RIVER BASIN	19	362	123

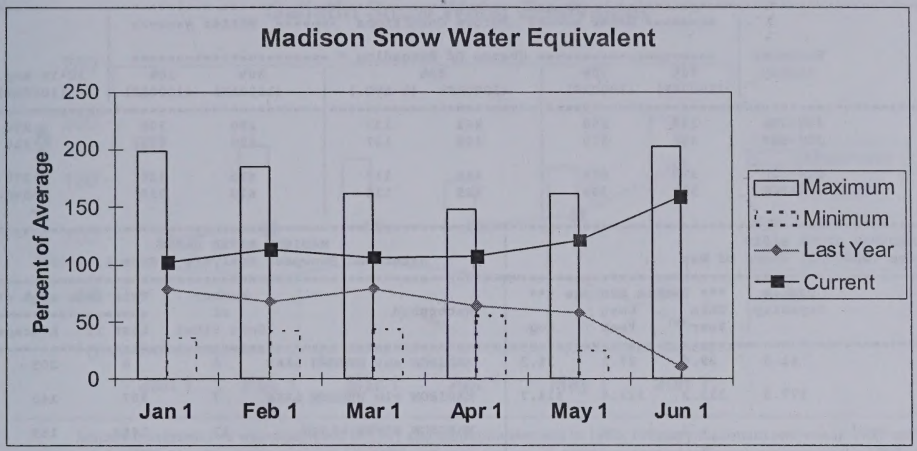
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

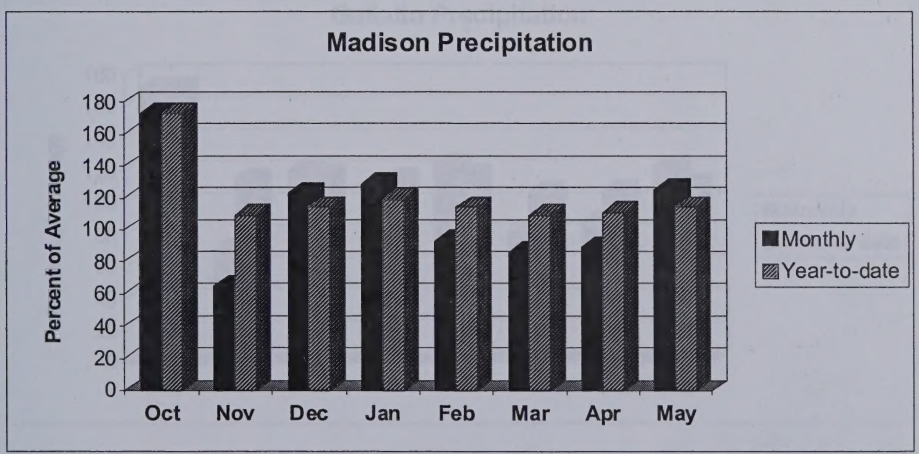
Madison River Basin

Snowpack conditions in the Madison River Basin were well above average and fifth highest of record. Snow water content was 159 percent of average and 1459 percent of last year. Madison Plateau SNOTEL site was third highest of record, Whiskey Creek SNOTEL site set a new record high previously set in 1975, and Lone Mountain SNOTEL site was second highest of record.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during May was 125 percent of average and 225 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 114 percent of average and 137 percent of last year.



Ennis Lake storage was 84 percent of average and 80 percent of last year and Hebgen Lake storage was 106 percent of average and 100 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.1 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	JUN-JUL	225	250	265	133	280	305	200
	JUN-SEP	335	370	395	127	420	455	310
ENNIS Reservoir Inflow (2)	JUN-JUL	370	415	445	119	475	520	375
	JUN-SEP	520	580	625	116	670	730	540

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	29.6	37.2	35.3
HEBGEN LAKE	377.5	333.3	333.6	314.7

MADISON RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	4	0	205
MADISON blw HEBGEN LAKE	7	907	140
MADISON RIVER BASIN	11	1459	159

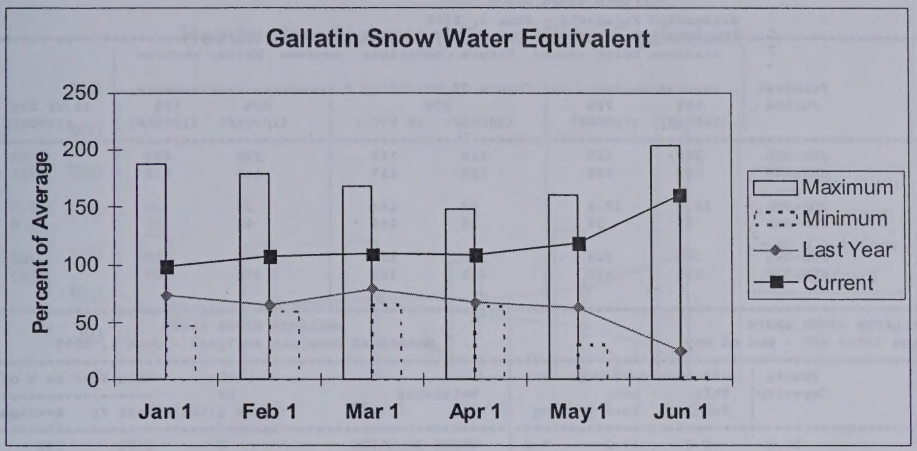
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

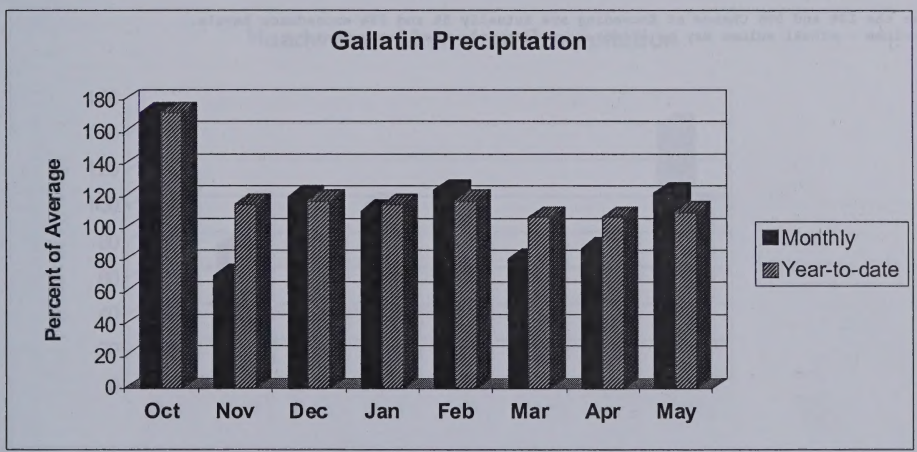
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were well above average. Snow water content was 160 percent of average and 631 percent of last year. Lick Creek SNOTEL site was second highest of record of 48 years and Brackett Creek was fourth highest of record.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 2005; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during May was 123 percent of average and 152 percent of last year. Valley precipitation during May was 112 percent of average and 101 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 110 percent of average and 127 percent of last year.



Middle Creek storage was 118 percent of average and 88 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +2.0 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	JUN-JUL	280	315	340	119	365	400	285
	JUN-SEP	335	385	420	117	455	505	360
HYALITE RESERVOIR Inflow	JUN-JUL	16.8	19.9	22	148	24	27	14.9
	JUN-SEP	20	24	26	144	28	32	18.0
GALLATIN RIVER at Logan (2)	JUN-JUL	290	325	350	125	375	410	280
	JUN-SEP	365	415	445	124	475	525	360

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	9.0	10.2	7.6

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	3	2370	143
HYALITE	2	255	184
BRIDGER	2	0	200
GALLATIN RIVER BASIN	7	631	160

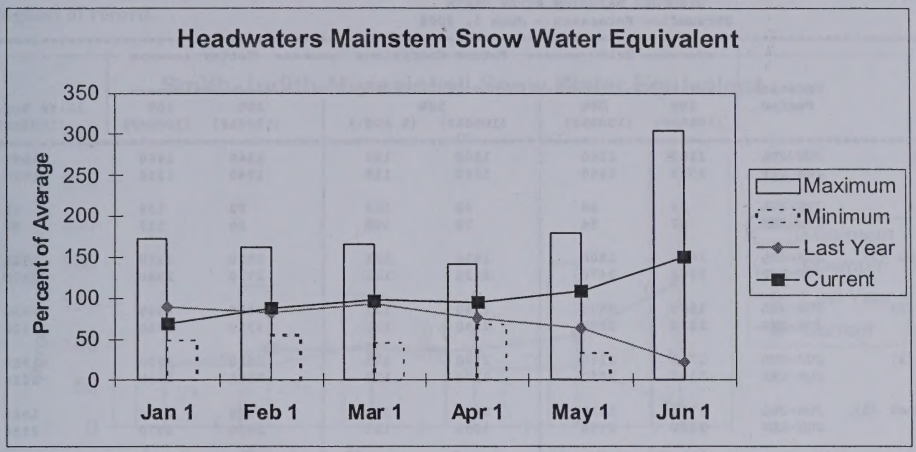
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

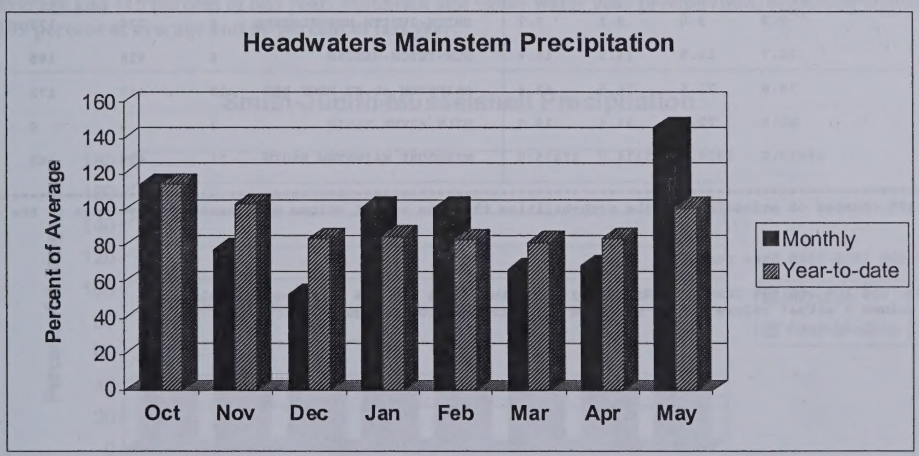
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were well above average. Snow water content was 150 percent of average and 691 percent of last year. Boulder Mountain SNOTEL site was fourth highest of record.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961,1966, and 2005; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during May was 129 percent of average and 106 percent of last year. Valley precipitation during May was 154 percent of average and 74 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 101 percent of average and 84 percent of last year.



Canyon Ferry Lake storage was 102 percent of average and 95 percent of last year; Helena Valley storage was 117 percent of average and 99 percent of last year; Lake Helena storage was 73 percent of average and 95 percent of last year; Hauser & Helena storage was 116 percent of average and 97 percent of last year; Holter Lake storage was 91 percent of average and 89 percent of last year; and Fort Peck Lake storage was 58 percent of average and 99 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +0.5 in the Missouri River above Canyon Ferry; +0.4 in the Missouri River below Canyon Ferry; +1.1 in the Missouri River above Fort Peck; and no reservoir data in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	JUN-JUL	1200	1260	1300	119	1340	1400	1090
	JUN-SEP	1570	1640	1690	119	1740	1810	1420
DEARBORN nr Craig	JUN-JUL	24	48	65	103	82	106	63
	JUN-SEP	27	54	72	108	90	117	67
MISSOURI RIVER at Fort Benton (2)	JUN-JUL	1650	1800	1910	121	2020	2170	1580
	JUN-SEP	2260	2470	2620	121	2770	2980	2170
MISSOURI RIVER at Virgelle (2)	JUN-JUL	1640	2000	2240	123	2480	2840	1820
	JUN-SEP	2210	2670	2990	123	3310	3780	2430
MISSOURI RIVER nr Landusky (2)	JUN-JUL	1720	2100	2360	121	2620	3000	1950
	JUN-SEP	2300	2820	3170	122	3520	4030	2610
MISSOURI RIVER below Fort Peck (2)	JUN-JUL	1770	2130	2370	121	2610	2970	1960
	JUN-SEP	2300	2770	3090	121	3410	3870	2550
LAKE SAKAKAWEA Inflow (2)	JUN-JUL	5410	6540	7310	126	8080	9210	5800
	JUN-SEP	7070	8140	9100	126	10100	11100	7240

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1691.0	1774.0	1656.7
HELENA VALLEY	9.2	9.0	9.1	7.7
LAKE HELENA	12.7	10.5	11.1	14.4
HAUSER & HELENA	74.6	72.6	74.5	62.6
HOLTER LAKE	81.9	72.6	81.4	79.8
FORT PECK LAKE	18910.0	9024.0	9114.0	15495.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	5	691	150
SMITH-JUDITH-MUSSELSHELL	9	736	178
SUN-TETON-MARIAS	6	416	185
MAINSTEM ab FT PECK RES	19	487	172
MILK RIVER BASIN	3	0	0
MISSOURI MAINSTEM BASIN	21	426	162

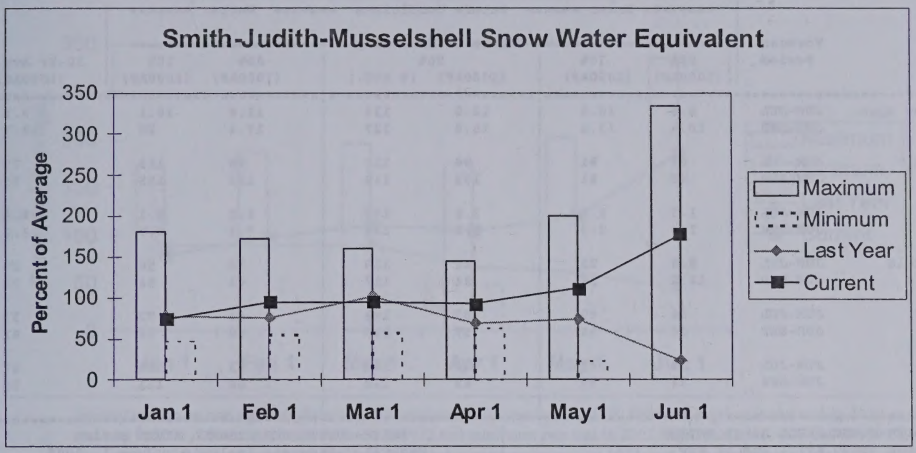
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

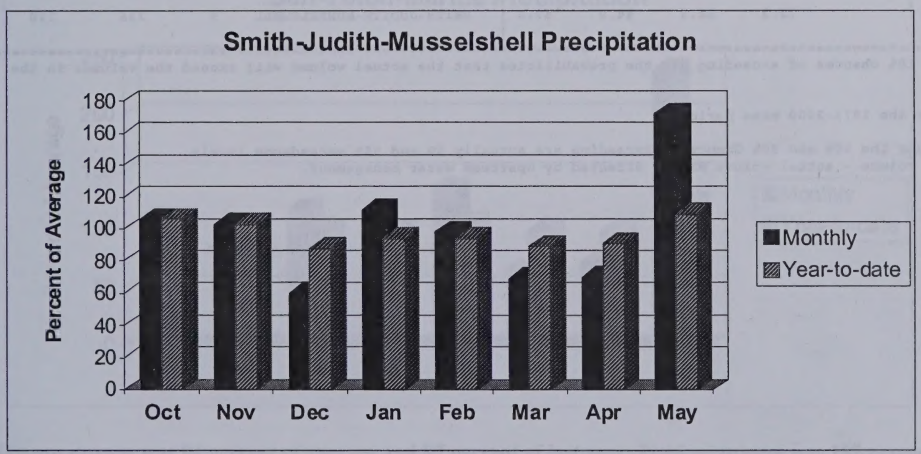
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were well above average. Snow water content in the Smith was 178 percent of average and 757 percent of last year, Judith was 159 percent of average and 404 percent of last year, and the Musselshell was 147 percent of average and last year was melted out. Onion Park SNOTEL set a new record high, Crystal Lake SNOTEL site was second highest of record, and Daisy Peak SNOTEL was fourth highest of record.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987 and 2005; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994,and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during May in the Smith-Belts was 147 percent of average and 112 percent of last year; in the Judith was 170 percent of average and 100 percent of last year; and in the Musselshell was 204 percent of average and 115 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 109 percent of average and 90 percent of last year.



Smith River storage was 82 percent of average and 74 percent of last year; Ackley Lake storage was 73 percent of average and 72 percent of last year; Bair storage was 42 percent of average and 71 percent of last year; Martinsdale storage was 21 percent of average and 65 percent of last year; and Deadman's Basin was 56 percent of average and 74 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +0.3 in the Smith River; +2.5 in the Upper Judith River; and +0.2 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	JUN-JUL	8.3	10.6	12.2	134	13.8	16.1	9.1
	JUN-SEP	10.4	13.4	15.4	127	17.4	20	12.1
SMITH RIVER abv Eagle Creek	JUN-JUL	67	81	90	120	99	113	75
	JUN-SEP	49	81	102	112	123	155	91
NF MUSSELSHELL nr Delpine	JUN-JUL	1.3	2.4	3.2	139	4.0	5.1	2.3
	JUN-SEP	1.9	3.3	4.3	134	5.3	6.7	3.2
SF MUSSELSHELL abv Martinsdale	JUN-JUL	9.8	22	30	120	38	50	25
	JUN-SEP	12.2	25	34	117	43	56	29
MUSSELSHELL at Harlowton (2)	JUN-JUL	34	45	53	143	61	72	37
	JUN-SEP	36	48	57	139	66	78	41
MUSSELSHELL nr Roundup (2)	JUN-JUL	24	49	66	140	83	108	47
	JUN-SEP	27	52	69	138	86	111	50

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	8.4	11.3	10.2
ACKLEY LAKE	7.0	3.6	5.0	4.9
BAIR	7.0	2.5	3.5	5.9
MARTINSDALE	23.1	3.9	6.0	18.2
DEADMAN'S BASIN	72.2	32.4	44.0	57.6

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	6	757	178
HIGHWOOD	0	0	0
JUDITH	4	404	159
MUSSELSHELL	2	0	147
SMITH-JUDITH-MUSSELSHELL	9	736	178

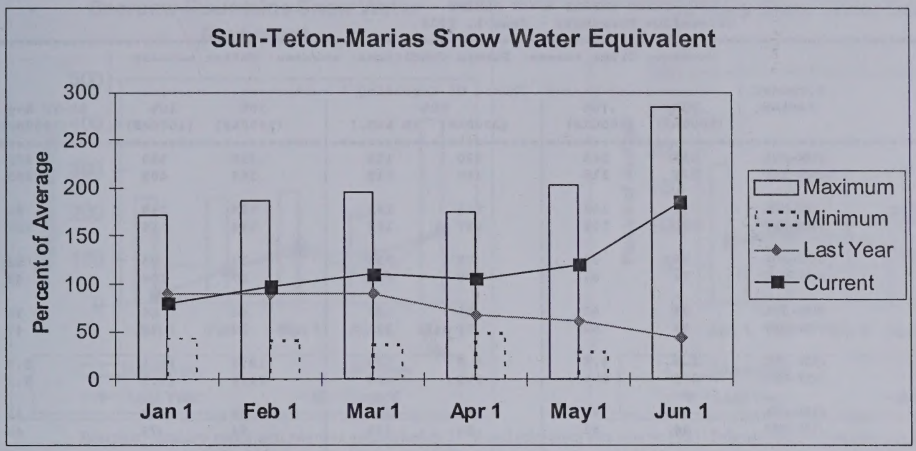
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

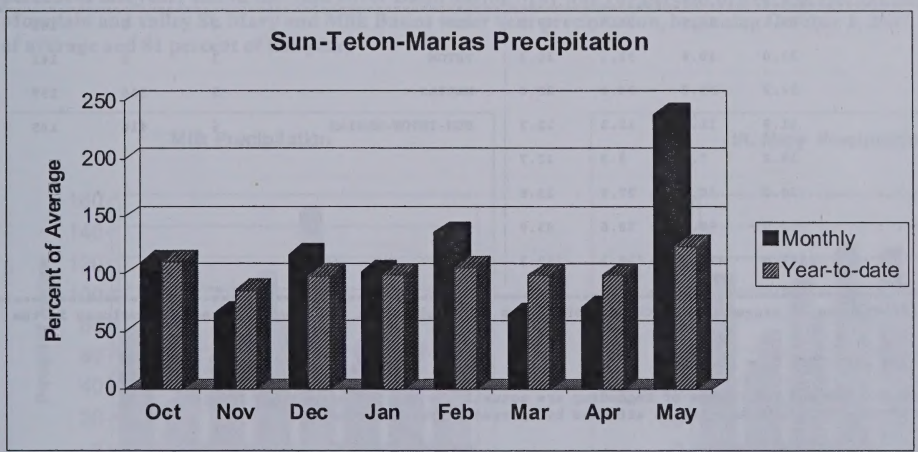
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were well above average and eighth highest of record. Snow water content in the Sun was 143 percent of average and last year was melted out; Teton was 143 percent of average and last year was melted out; and Marias was 199 percent of average and 336 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during May in the Sun was 226 percent of average and 220 percent of last year; in the Teton was 232 percent of average and 207 percent of last year; and in the Marias was 242 percent of average and 290 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 124 percent of average and 124 percent of last year.



Gibson storage was 94 percent of average and 87 percent of last year; Pishkun storage was 102 percent of average and 99 percent of last year; Willow Creek storage was 113 percent of average and 100 percent of last year; Lower Two Medicine Lake storage was 95 percent of average and 95 percent of last year; Four Horns Lake storage was 56 percent of average and 72 percent of last year; Swift storage was 129 percent of average and 109 percent of last year; Lake Frances storage was 74 percent of average and 162 percent of last year; and Lake Elwell (Tiber) storage was 110 percent of average and 113 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.4 in the Sun River; +1.1 in the Teton River; +0.7 in the Birch/Dupuyer Creeks; and +1.6 in the Marias River above Tiber and +2.3 in the Marias below Tiber.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	JUN-JUL	230	265	290	114	315	350	255
	JUN-SEP	275	315	340	112	365	405	305
TWO MEDICINE RIVER nr Browning	JUN-JUL	93	107	116	122	125	139	95
	JUN-SEP	100	116	127	119	138	154	107
BADGER CREEK nr Browning (2)	JUN-JUL	59	67	72	136	77	85	53
	JUN-SEP	74	83	90	130	97	106	69
SWIFT RESERVOIR Inflow	JUN-JUL	34	40	44	126	48	54	35
	JUN-SEP	44	52	57	121	62	70	47
DUPUYER CREEK nr Valier	JUN-JUL	1.9	5.6	8.2	126	10.8	14.5	6.5
	JUN-SEP	2.3	6.8	9.8	118	12.8	17.3	8.3
CUT BANK CREEK nr Browning	JUN-JUL	38	46	51	121	56	64	42
	JUN-SEP	44	52	58	118	64	72	49
MARIAS RIVER nr Shelby (2)	JUN-JUL	89	153	196	107	240	305	183
	JUN-SEP	123	184	225	107	265	325	210
TETON nr Dutton	JUN-JUL	11.2	27	37	137	47	63	27
	JUN-SEP	20	36	47	134	58	74	35

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	83.9	96.4	89.2
PISHKUN	32.0	30.8	31.1	30.3
WILLOW CREEK	32.2	31.5	31.4	28.0
LOWER TWO MEDICINE LAKE	11.9	11.7	12.3	12.3
FOUR HORNS LAKE	19.2	7.1	9.9	12.7
SWIFT	30.0	30.3	27.9	23.5
LAKE FRANCES	112.0	62.5	38.6	83.9
LAKE ELWELL (TIBER)	1347.0	810.5	718.3	737.7

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	2	0	143
TETON	3	0	143
MARIAS	3	336	199
SUN-TETON-MARIAS	6	416	185

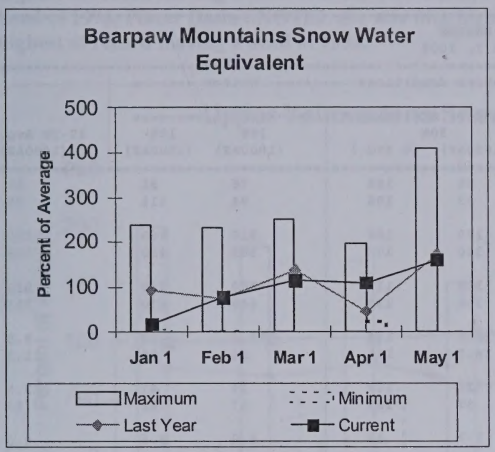
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

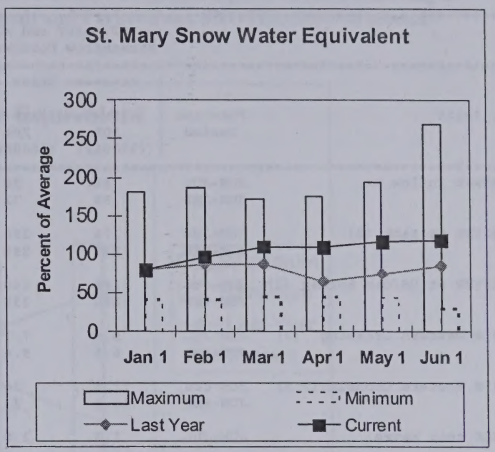
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack conditions in the St. Mary were above average. Snow water content was 118 percent of average and 139 percent of last year. There was not any snow remaining on SNOTEL or snow courses in the Milk.

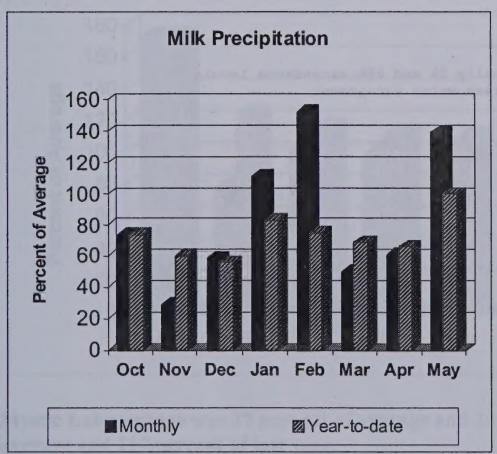


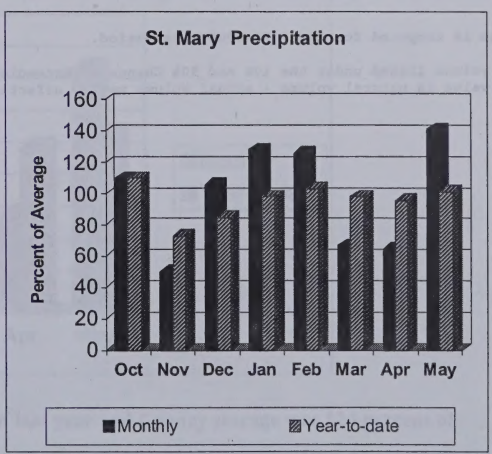


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 2005; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1967 and 1972 and minimum swe was in 2005; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during May was 141 percent of average and 148 percent of last year; and in the Milk River Basin during May was 169 percent of average and 112 percent of last year. Mountain and valley St. Mary and Milk Basins water year precipitation, beginning October 1, 2007, was 101 percent of average and 81 percent of last year.





Lake Sherburne storage was 86 percent of average and 88 percent of last year; Fresno storage was 72 percent of average and 64 percent of last year; Beaver Creek storage was not available; and Nelson storage was 77 percent of average and 51 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.5 for the St. Mary River and -0.6 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	JUN-JUL	41	56	66	108	76	91	61
	JUN-SEP	55	72	83	106	94	111	78
ST. MARY RIVER nr Babb (2)	JUN-JUL	174	230	270	108	310	365	250
	JUN-SEP	230	295	340	108	385	450	315
ST. MARY RIVER at US/CAN Border (2)	JUN-JUL	190	260	310	117	360	430	265
	JUN-SEP	250	335	390	113	445	530	345
MILK RIVER @ Western Crossing (3)	JUN-JUL	5.4	7.7	13.6	143	19.5	28	9.5
	JUN-SEP	6.6	9.4	16.5	146	24	34	11.3
MILK RIVER @ Eastern Crossing(2,3)	JUN-JUL	17.4	24	29	149	34	41	19.5
	JUN-SEP	12.2	27	37	128	47	62	29
BEAVER CREEK near Havre	JUN-JUL	1.3	2.0	3.3	83	4.6	6.6	4.0

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	29.6	33.6	34.6
FRESNO	127.0	60.4	93.8	83.5
BEAVER CREEK		NO REPORT		
NELSON	66.8	31.3	61.2	40.6

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	2	139	118
BEARPAW MOUNTAINS	3	0	0
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	3	0	0
ST. MARY & MILK BASINS	5	139	116

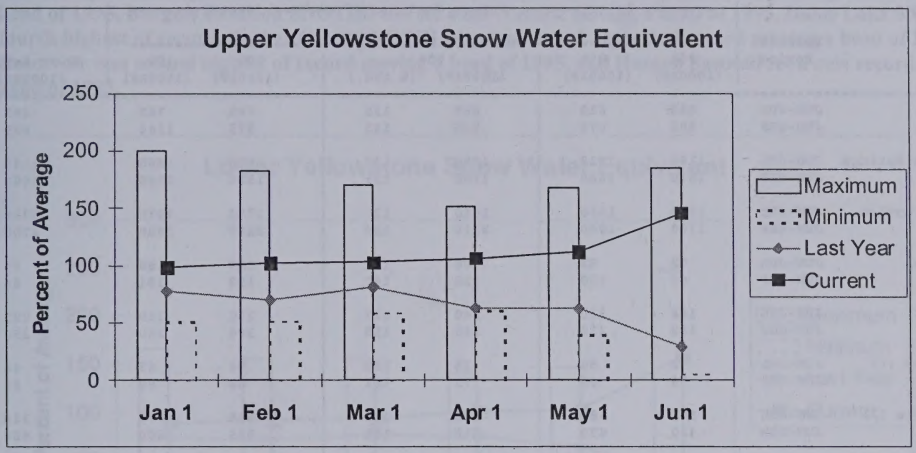
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

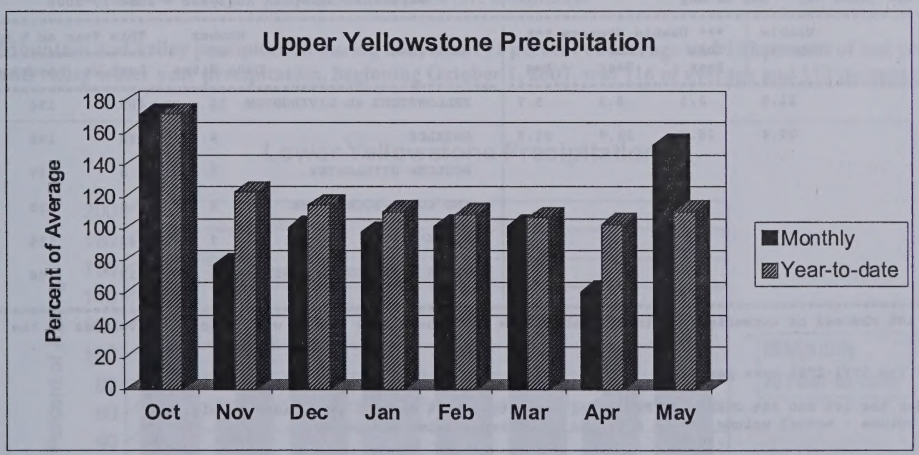
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were well above average and seventh highest of record. Snow water content was 146 percent of average and 512 percent of last year. Canyon SNOTEL site was second highest of record moving a head of 1996, Two Ocean Plateau SNOTEL site was second highest of record moving a head of 1996, Placer Basin SNOTEL site was fifth highest of record, and Parker Peak SNOTEL site was second highest of record moving a head of 1996.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during May was 141 percent of average and 228 percent of last year. Valley precipitation during May was 184 percent of average and 163 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 111 percent of average and 122 percent of last year.



Mystic Lake storage was 37 percent of average and 24 percent of last year and Cooney storage was 124 percent of average and 117 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +2.1 in the Yellowstone River above Livingston; +1.7 in the Shields River; +0.6 in the Boulder River; +0.6 in the Stillwater River; +0.9 in the Rock/Red lodge Creeks; +2.4 in the Clarks Fork River; and +1.8 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	JUN-JUL	545	610	655	135	700	765	485
	JUN-SEP	805	875	925	133	975	1040	695
YELLOWSTONE RIVER at Corwin Springs	JUN-JUL	1180	1320	1420	125	1520	1660	1140
	JUN-SEP	1510	1680	1800	123	1920	2090	1460
YELLOWSTONE RIVER near Livingston	JUN-JUL	1350	1530	1660	127	1790	1970	1310
	JUN-SEP	1700	1940	2110	124	2280	2520	1700
SHIELDS RIVER nr Livingston	JUN-JUL	52	83	104	151	125	156	69
	JUN-SEP	61	100	126	147	152	191	86
BOULDER RIVER at Big Timber	JUN-JUL	166	210	240	117	270	315	205
	JUN-SEP	182	230	265	115	300	350	230
MYSTIC LAKE Reservoir Inflow (2)	JUN-JUL	42	50	55	115	60	68	48
	JUN-SEP	56	66	73	111	80	90	66
STILLWATER RIVER nr Absarokee (2)	JUN-JUL	345	385	410	112	435	475	365
	JUN-SEP	420	475	510	111	545	600	460
CLARKS FORK RIVER nr Belfry	JUN-JUL	335	430	495	127	560	655	390
	JUN-SEP	370	480	555	125	630	740	445
COONEY RESERVOIR Inflow (2)	JUN-JUL	15.9	24	29	126	34	42	23
	JUN-SEP	26	35	41	121	47	56	34
YELLOWSTONE RIVER at Billings (2)	JUN-JUL	2280	2650	2900	122	3150	3520	2380
	JUN-SEP	3230	3340	3660	122	3980	4090	2990

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	2.1	8.9	5.7
COONEY	27.4	26.7	22.8	21.5

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	11	409	156
SHIELDS	4	859	158
BOULDER-STILLWATER	3	0	137
RED LODGE-ROCK CREEK	2	0	135
CLARK'S FORK	7	349	134
UPPER YELLOWSTONE BASIN	23	512	146

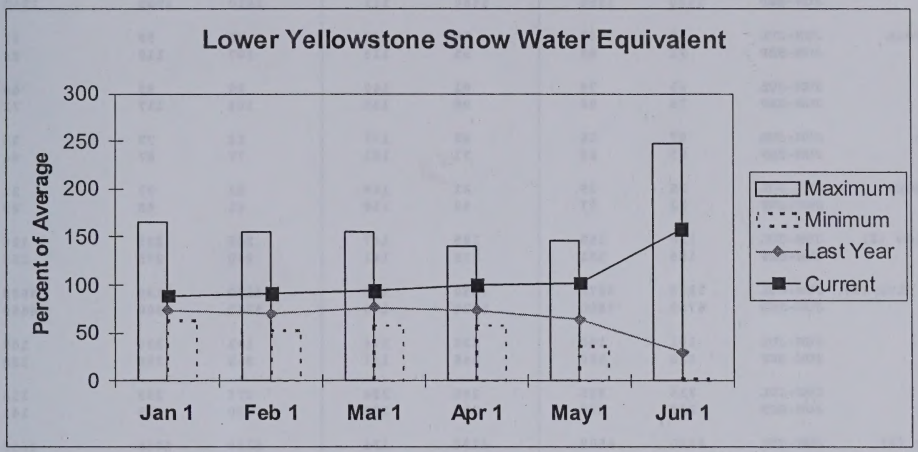
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

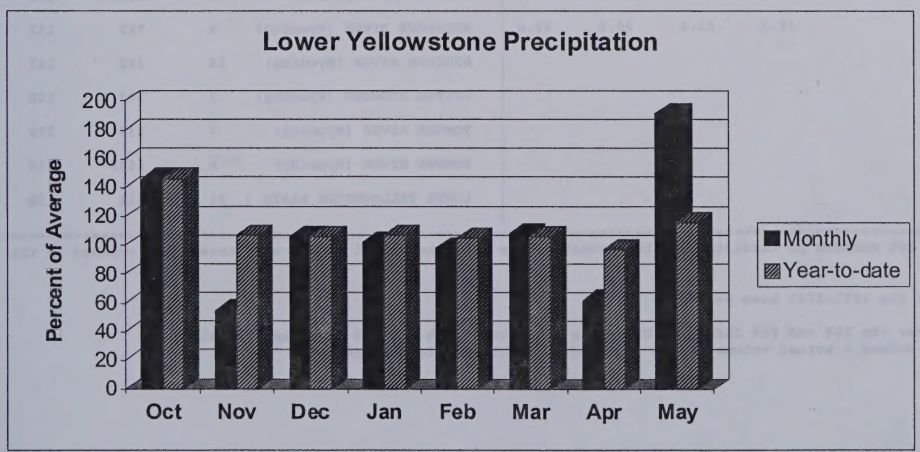
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin were well above average and tied for fourth highest of record with 1999. Snow water content was 158 percent of average and 524 percent of last year. Burroughs Creek SNOTEL site was third highest of record, Deer Park SNOTEL site was third highest of record, Owl Creek SNOTEL site was second highest of record moving a head of 1995, Grave Springs SNOTEL site was second highest of record moving a head of 1995, Powder River Pass SNOTEL site was third highest of record, Shell Creek SNOTEL site was second highest of record moving a head of 1995, Timber Creek SNOTEL site was second highest of record moving a head of 1995, Burgess Junction SNOTEL site set a new record moving a head of 1995, Dome Lake SNOTEL site was fourth highest of record, Sucker Creek SNOTEL site was second highest of record moving a head of 1995, Cloud Peak Reservoir was second highest of record moving a head of 1995, and Hansen Sawmill set a new record high moving a head of 1982.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during May was 191 percent of average and 137 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2007, was 116 of average and 113 percent of last year.



Bighorn Lake storage was 105 percent of average and 100 percent of last year and Tongue River storage was 172 percent of average and 103 percent of last year.

For streamflow snowmelt peak dates and volumes refer to the state-wide summary.

Surface Water Supply Index (SWSI) was +1.5 in the Bighorn River below Bighorn Lake; +2.1 in the Little Bighorn River; +1.7 in the Yellowstone River below Bighorn River; +3.4 in the Tongue River; and +3.4 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - June 1, 2008

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BIGHORN RIVER nr St. Xavier (2)	JUN-JUL	1010	1180	1300	119	1420	1590	1090
	JUN-SEP	1170	1350	1480	119	1610	1780	1240
LITTLE BIGHORN RIVER nr Hardin	JUN-JUL	53	67	76	113	85	99	67
	JUN-SEP	71	83	95	115	107	119	83
TONGUE RIVER nr Dayton (2)	JUN-JUL	63	74	81	140	88	99	58
	JUN-SEP	75	88	96	135	104	117	71
BIG GOOSE CREEK nr Sheridan	JUN-JUL	47	56	62	177	68	77	35
	JUN-SEP	55	65	71	161	77	87	44
LITTLE GOOSE CREEK nr Big Horn	JUN-JUL	25	29	31	148	33	37	21
	JUN-SEP	32	37	40	138	43	48	29
TONGUE RIVER RESERVOIR Inflow (2)	JUN-JUL	136	165	185	147	205	235	126
	JUN-SEP	155	191	215	141	240	275	153
YELLOWSTONE RIVER at Miles City (2)	JUN-JUL	3310	3870	4250	118	4630	5190	3600
	JUN-SEP	4750	4800	5270	118	5740	5800	4450
POWDER RIVER at Moorehead	JUN-JUL	101	140	225	214	192	230	105
	JUN-SEP	120	160	245	191	215	255	128
POWDER RIVER near Locate	JUN-JUL	235	255	260	224	275	295	116
	JUN-SEP	250	270	285	202	300	325	141
YELLOWSTONE RIVER nr Sidney (2)	JUN-JUL	3930	4500	4890	134	5280	5850	3650
	JUN-SEP	5270	5510	5980	134	6450	6680	4460

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	914.3	911.9	867.1
TONGUE RIVER	79.1	82.6	80.2	48.0

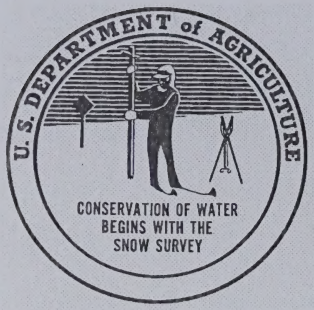
LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - June 1, 2008

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	12	1452	141
SHOSHONE RIVER (Wyoming)	6	762	132
BIGHORN RIVER (Wyoming)	16	380	147
LITTLE BIGHORN (Wyoming)	2	182	155
TONGUE RIVER (Wyoming)	7	333	236
POWDER RIVER (Wyoming)	6	1439	276
LOWER YELLOWSTONE BASIN (	31	524	158

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.



Federal Building, Room 443
10 E. Babcock
Bozeman, MT 59715

Montana
Water Supply Outlook
Report

Natural Resources Conservation Service
Bozeman, MT